

PMA 1 - FGB PRESSURIZATION

PRESSURIZATION INITIALIZATION

1. **MCC-H** to verify Node 1 CABIN PRESS = 679.85 --- 760.00 mmHg (14.5 --- 14.7 psia). |
2. **MCC-H** notify **MCC-M**, "Proceed with PMA 1 Pressurization."
3. EPK1, EPK2 command (two) - Enable
4. Verify EPK1, EPK2 (two) - Enabled
5. **cmd** EPK2 - Open
6. Verify pressure of FGB PMA1 PRESS 1,2 (two) ~0 (vacuum condition)
7. Record time and pressures
DMT ____:____:____(dd:hh:mm)

FGB PMA1 PRESS 1 _____
FGB PMA1 PRESS 2 _____
8. **MCC-M** notify **MCC-H** on initiation of PMA 1 pressurization.
9. **MCC-H** notify shuttle on initiation of PMA 1 pressurization.
10. **cmd** EPK1 - Open
11. **MCC-M** notify **MCC-H** pressurization in progress.

PRESSURIZATION COMPLETION

12. **MCC-H** notify shuttle pressurization in progress.
13. Wait two orbits, then
cmd EPK1 - Close
14. **MCC-M** notify **MCC-H** on the completion of pressurization.
15. **MCC-H** notify shuttle on the completion of pressurization.
16. Wait 90 minutes for PMA 1 stabilization of temperature gradients. |

PMA 1/FGB INTERFACE LEAK CHECK

17. Record time and pressures and calculate initial average

DMT ____:____:____ (dd:hh:mm)

FGB PMA1 PRESS 1 _____ (mmHg)

FGB PMA1 PRESS 2 _____ (mmHg)

Initial average (PRESS 1 + PRESS 2)/2 = _____ (mmHg)

18. **MCC-M** notify **MCC-H** on the initiation of the PMA 1 leak check.
Report time, pressures and initial pressure as recorded in step 19 and subsequent data acquisition opportunities to **MCC-H**.

LEAK CHECK COMPLETION

19. Wait until daily orbit 12, at data acquisition opportunity, then record time and pressures and calculate final average

DMT ____:____:____ (dd:hh:mm)

FGB PMA1 PRESS 1 _____ (mmHg)

FGB PMA1 PRESS 2 _____ (mmHg)

Final average (PRESS 1 + PRESS 2)/2 = _____ (mmHg)

20. Leak check pressure decay

Pressure decrease = _____ (mmHg)

Initial Average - Final Average = _____ (mmHg)

21. Make a plot and perform an analysis of automatically recorded telemetry data and define the pressure trend.

22. **cmd** EPK2 - Close
cmd EPK1, EPK2 command (two) - Disabled
Verify EPK1, EPK2 command (two) - Disabled

23. Report to **MCC-H** the results of the pressure trend analysis as recorded in step 21.

24. If pressure decrease is < 7 mm Hg - PMA 1/FGB interface seal is tight |

MCC-M notify **MCC-H** valid seal integrity demonstrated.

MCC-H notify shuttle on the good leak check.

25. If pressure decrease is > 7 mm Hg - suspect leak conditions |

MCC-M notify **MCC-H** invalid seal integrity.

MCC-H notify shuttle invalid leak check.

√**MCC-H** for further actions.

MCC-M follow instructions from **MCC-H**.

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* ***** *
* CONFIGURE FGB EPK ASSEMBLY FOR DEMATING *
* 26. MCC-M notify MCC-H, "FGB configured for demating." *
* *
* CONFIGURE PA/ICC FOR SECOND REPRESS *
* 27. MCC-M contact MCC-H, "FGB TC configured for second repress." *
* *
* Report PA total pressure to MCC-H. *
* *
* 28. MCC-H notify MCC-M to repeat steps 1 --- 23. *
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